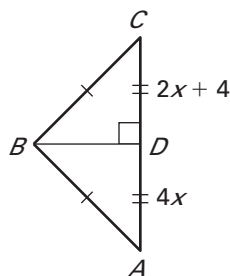
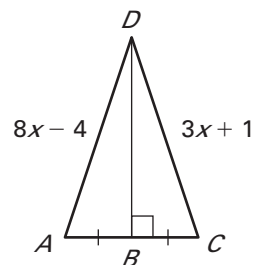


LESSON
5.2**Practice A***For use with pages 303–309***Find the length of \overline{CD} .**

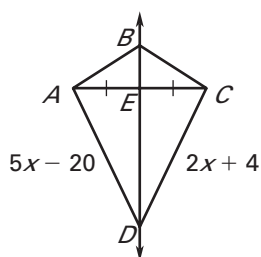
1.



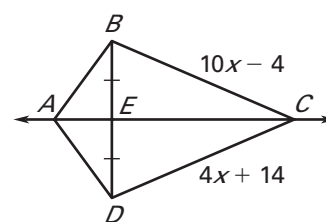
2.



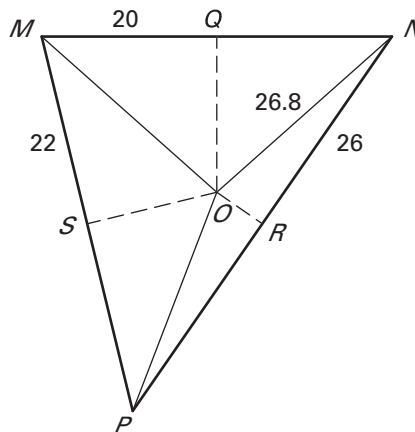
3.



4.

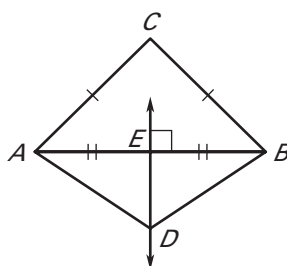


In the diagram, the perpendicular bisectors of $\triangle MNP$ meet at point O and are shown dashed. Find the indicated measure.

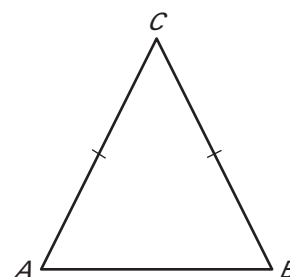
5. Find MO .6. Find PR .7. Find MN .8. Find SP .9. Find QN .10. Find MP .

Tell whether the information in the diagram allows you to conclude that C is on the perpendicular bisector of \overline{AB} . Explain.

11.

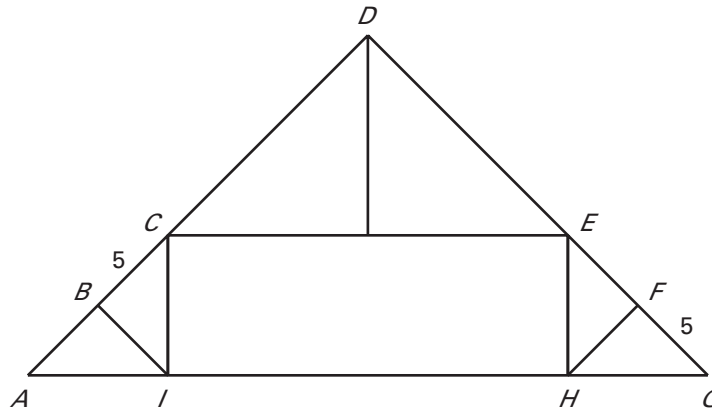


12.



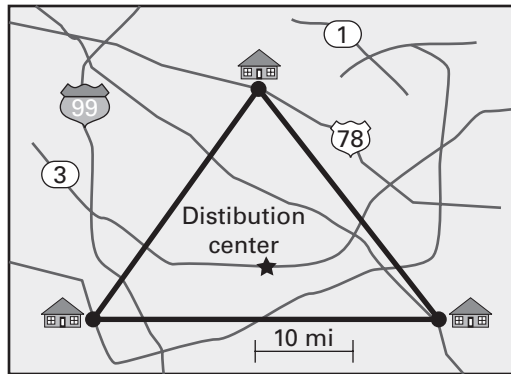
LESSON
5.2
Practice A *continued*
For use with pages 303–309

- 13. Roof Trusses** Some roofs are built with wooden trusses. An attic truss provides storage space within the roof. Let \overline{BI} , \overline{FH} , and \overline{DJ} be perpendicular bisectors. If $CI = 7$, $JE = 10$, and $EH = 7$, find the length of \overline{AG} .



In Exercises 14 and 15, use the following information.

Construction A restaurant chain is planning to build a distribution center that is convenient to its three restaurants. The diagram shows the locations of the restaurants. The locations form a triangle.



- 14.** In the diagram, how could you find a point that is equidistant from each location?
Explain your answer.
- 15.** Make a sketch of the situation. Find the best location for the distribution center.